

# Work Order ID 86531

**\*86531\***

Page 1

Wednesday, July 04, 2012 4:08:25 PM

Item ID: D3913-7 Accept **\*N900040100\*** Setup Start **\*NS1\***  
 Revision ID: Stop **\*NS2\***  
 Item Name: Rib  
 Start Date: 7/4/2012 Start Qty: 6.00 **\*6\*** Cust Item ID:  
 Required Date: 7/12/2012 Req'd Qty: 6.00 **\*6\*** Customer:  
 Reference:

Approvals: Process Plan: H Date: 12-02-12 Tooling: \_\_\_\_\_ Date: \_\_\_\_\_ Run Start **\*NR1\***  
 QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_ Stop **\*NR2\***

Sequence ID/ Work Center ID	Operation Description	Set Up/ Run Hours	Tool ID	Tool #	Plan Code	Accept Qty	Reject Qty	Reject Number	Insp. Stamp
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Draw Nbr	Revision Nbr
D3913	A

100		0.00							
<b>*100*</b>									
Large Fab	Memo	0.00							
Large Fab	1- Cut tube as per dwg D3913 2- remove identification marks and deburr								

6 7 DL-12-07-26

110	QC6- Inspect dimensions to drawing	0.00							
<b>*110*</b>									
QC	Memo	0.00							
Quality Control									

6 12-07-31

120	Identify as per dwg & Stock Location: _____	0.00							
<b>*120*</b>									
Packaging	Memo	0.00							
Packaging									

6 12-07-31

**Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_  
 Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

NCR:		WORK ORDER NON-CONFORMANCE (NCR)						
DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

**Work Order ID 86531**

Wednesday, July 04, 2012 4:08:25 PM

**\*86531\***

Page 2

Item ID: D3913-7

Accept

**\*N900040100\***Setup Start **\*NS1\***

Revision ID:

Stop **\*NS2\***

Item Name: Rib

Start Date: 7/4/2012 Start Qty: 6.00

**\*6\***

Cust Item ID:

Required Date: 7/12/2012 Req'd Qty: 6.00

**\*6\***

Customer:

Reference:

Approvals: Process Plan: \_\_\_\_\_ Date: \_\_\_\_\_ Tooling: \_\_\_\_\_ Date: \_\_\_\_\_

Run Start **\*NR1\***

QC: \_\_\_\_\_ Date: \_\_\_\_\_ SPC (Y/N): \_\_\_\_\_ Date: \_\_\_\_\_

Stop **\*NR2\***Sequence ID/  
Work Center IDOperation  
DescriptionSet Up/  
Run Hours

Tool ID

Tool #

Plan  
CodeAccept  
QtyReject  
QtyReject  
NumberInsp.  
Stamp

130

QC21- Final Inspection - Work Order Release

0.00

**\*130\***

QC

Memo

0.00

Quality Control

12/8/11  
MLJ 12107131

# Dart Aerospace Ltd

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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**NOTE:** Date & initial all entries

# Picklist Print

Wednesday, July 04, 2012 4:08:36 PM

Page 1

Work Order ID: 86531

\*86531\*

Parent Item: D3913-7

\*D3913-7\*

Parent Item Name: Rib

Start Date: 7/4/2012

Required Date: 7/12/2012

Start Qty: 6.00

Required Qty: 6.00

Comments: IPP Rev:A new issue DD 10.03.19 verified by:EC  
11.01.17 chg qc5 to 6 DD verf:EC

IPP Rev:B

Component Item ID/ Item Name	Replacement Item ID	Mfg/ Purch	Bin Item	Primary Location	Last Location	Route Seq ID	Unit of Measure	Qty on Hand	Qty per Kit	Total Qty	Qty Issued	Date Issued	Status
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M304TS0.500W.049

Purchased

No

100

f

614.6811

1.594

10.06737

\*M304TS0 500W 049\*

\*\*

Square Tubing

6 Dh 12-7-26

Location

Loc Qty

Loc Code

MAT034

614.6810523

118460

0.00001534

121328

2.059994

121565

55.282343

121808

557.3387

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

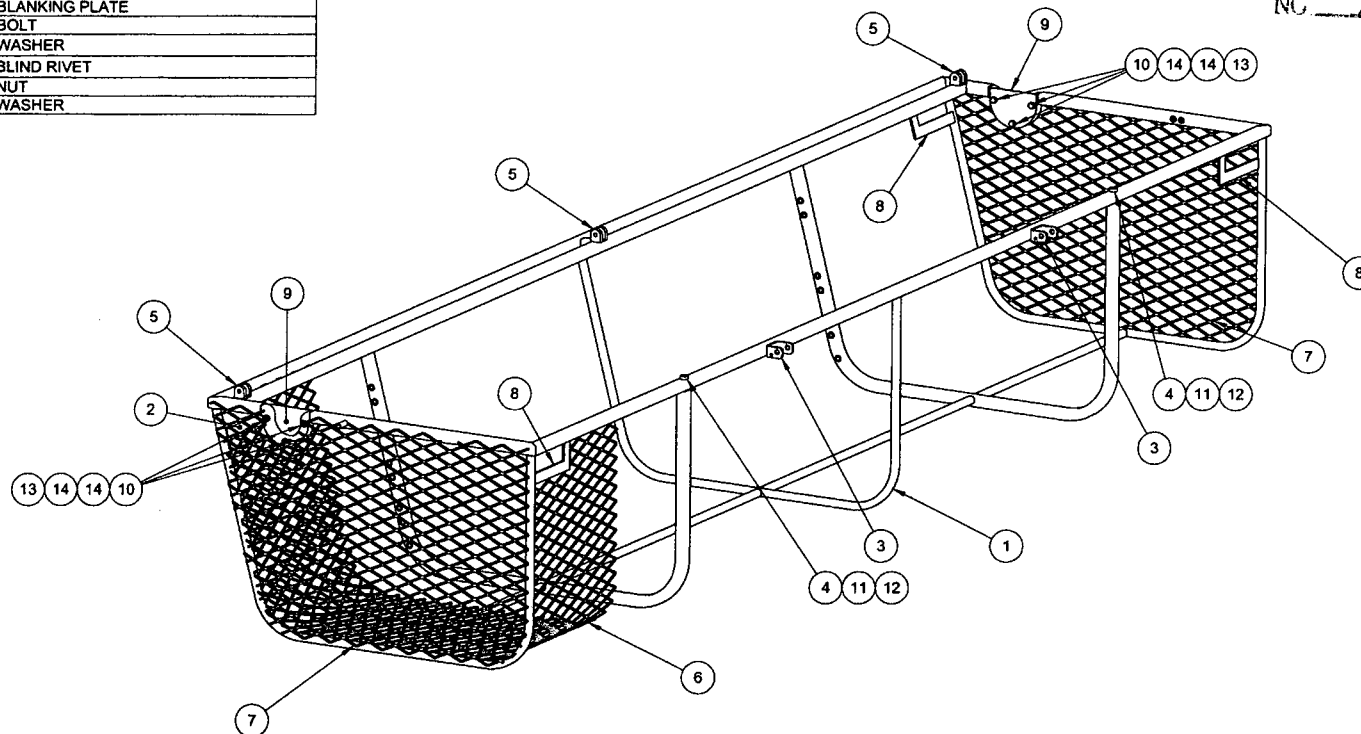
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Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries

ITEM	QTY	P/N	DESCRIPTION
	X	D3913-041	LONG BASKET BASE ASSY (350)
1	1	D3913-101	TUBULAR ASSY (350 SHORT BASKET)
2	1	D3913-15	WIDE HANDLE PLATE
3	2	D2581	MOUNTING BRACKET
4	2	D2931	BUMPER
5	3	D4016-1	HINGE HALF, BASE
6	1	D4020-1	MESH (350 BASKET LONG BASE)
7	2	D4020-11	END MESH, BASKET
8	3	D4021-1	HANDLE PLATE
9	2	D4021-5	BLANKING PLATE
10	6	AN3-10A	BOLT
11	2	AN960JD8	WASHER
12	2	MS20600AD4W3	BLIND RIVET
13	6	MS21042L3	NUT
14	12	NAS1149F0332P	WASHER



**D3913-041 LONG BASKET BASE ASSY (350)**  
(MESH SHOWN LOCALLY FOR CLARITY)

**NOTES:**

- 1) MATERIAL: N/A
- 2) FINISH: POWDER COAT WHITE (4.3.5.2) PER DART QSI 005 4.3
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: N/A
- 6) IDENTIFICATION: NONE
- 7) WEIGHT: 43.3 lbs APPROX
- 8) INSTALL AFTER FINISH
- 9) MASK HOLES PRIOR TO POWDER COAT
- 10) WELD PER DART QSI 004

SHOP COPY  
RETURNED  
ENGINEERING  
UNCONTROLLED COPY  
SUBJECT TO AMENDMENT  
WITHOUT NOTICE  
WORK ORDER  
NO. 86531  
272-074

**RELEASED**  
2010-03-22  
*WJP*

A NEW ISSUE		JPH	10.03.16
REV.	DESCRIPTION	BY	DATE
DESIGN	AJS		
DRAWN	JFH		
CHECKED			
MFG. APPR.			
APPROVED			
DE APPR.			
DATE	10.03.16		
<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA DRAWING NO. <b>D3913</b> TITLE <b>LONG BASKET BASE ASSY (350)</b> SHEET 1 OF 8 SCALE NTS COPYRIGHT © 2016 BY DART AEROSPACE LTD THIS DOCUMENT IS PRIVATE AND CONFIDENTIAL AND IS SUPPLIED ON THE EXPRESS CONDITION THAT IT IS NOT TO BE USED FOR ANY PURPOSE OR COPIED OR COMMUNICATED TO ANY OTHER PERSON WITHOUT WRITTEN PERMISSION FROM DART AEROSPACE LTD.			

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_

Resolution: \_\_\_\_\_ Disposition: \_\_\_\_\_ QA: N/C Closed: \_\_\_\_\_ Date: \_\_\_\_\_

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			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

**NOTE:** Date & initial all entries



TACK WELD MESH  
AT EVERY AVAILABLE  
LOCATION

**DETAIL C** D7-2

D A7-3  
D8-2  
D4020-1  
MESH

D3913-101  
TUBULAR ASSY

86531

D2931 BUMPER  
AN980JD8 WASHER  
MS20600AD4W3 RIVET  
2 PL [8]

D2581  
MOUNTING BRACKET  
2 PL

D4016-1  
HINGE HALF, BASE  
3 PL

D4021-1  
HANDLE PLATE  
2 PL

D4021-1  
HANDLE PLATE

C7-3 A

C3-3 B

**D3913-041 LONG BASKET BASE ASSY (350)**  
(MESH SHOWN LOCALLY FOR CLARITY)

**RELEASED**  
2010-03-27

DESIGN	AJS	<b>DART AEROSPACE LTD</b> HAWKESBURY, ONTARIO, CANADA	
DRAWN	JFH		
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D3913	SHEET 2 OF 6
APPROVED		TITLE	SCALE
DE APPR.		LONG BASKET BASE ASSY (350)	NTS
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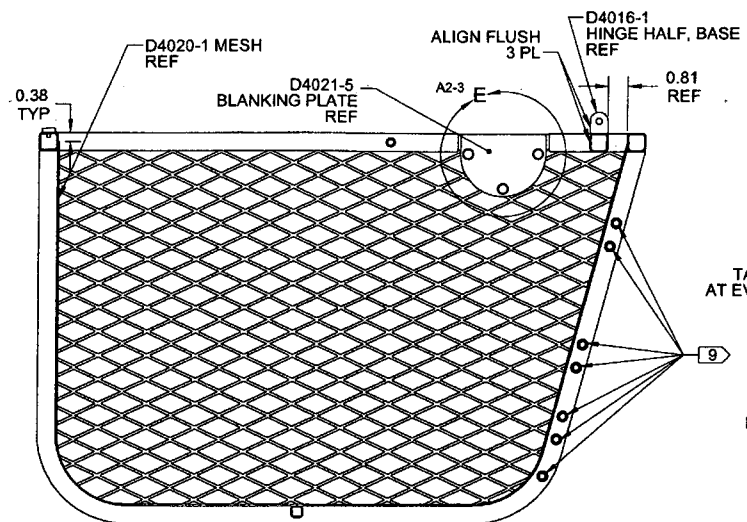
**Dart Aerospace Ltd**

W/O:		WORK ORDER CHANGES					
DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

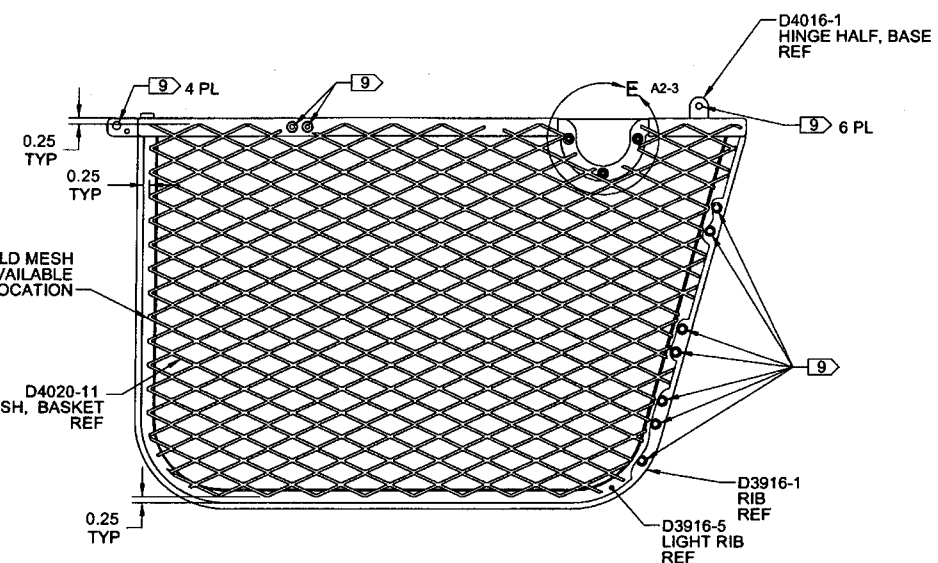
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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
			Initial Chief Eng	Action Description Chief Eng	Sign & Date			

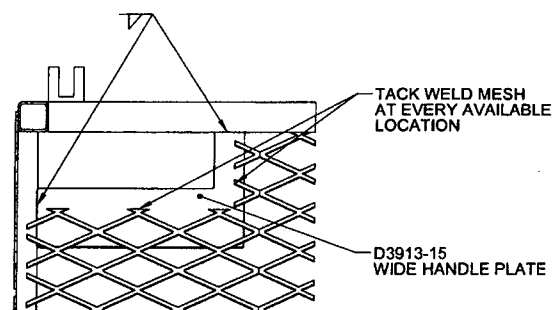
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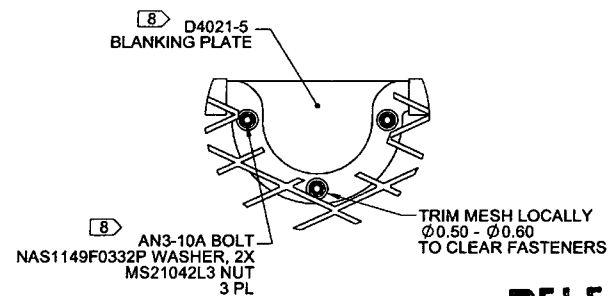
**SECTION A-A** A5-2



**VIEW B-B** A2-2







**SECTION D-D** D7-2  
TYPICAL FOR ALL  
HANDLE PLATES



**DETAIL E** D2-3  
D6-3

**RELEASED**  
2010-03-22

DESIGN	AJS	<b>DART AEROSPACE LTD</b>	
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CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D3913	SHEET 3 OF 6
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DE APPR.		LONG BASKET BASE ASSY (350) NTS	
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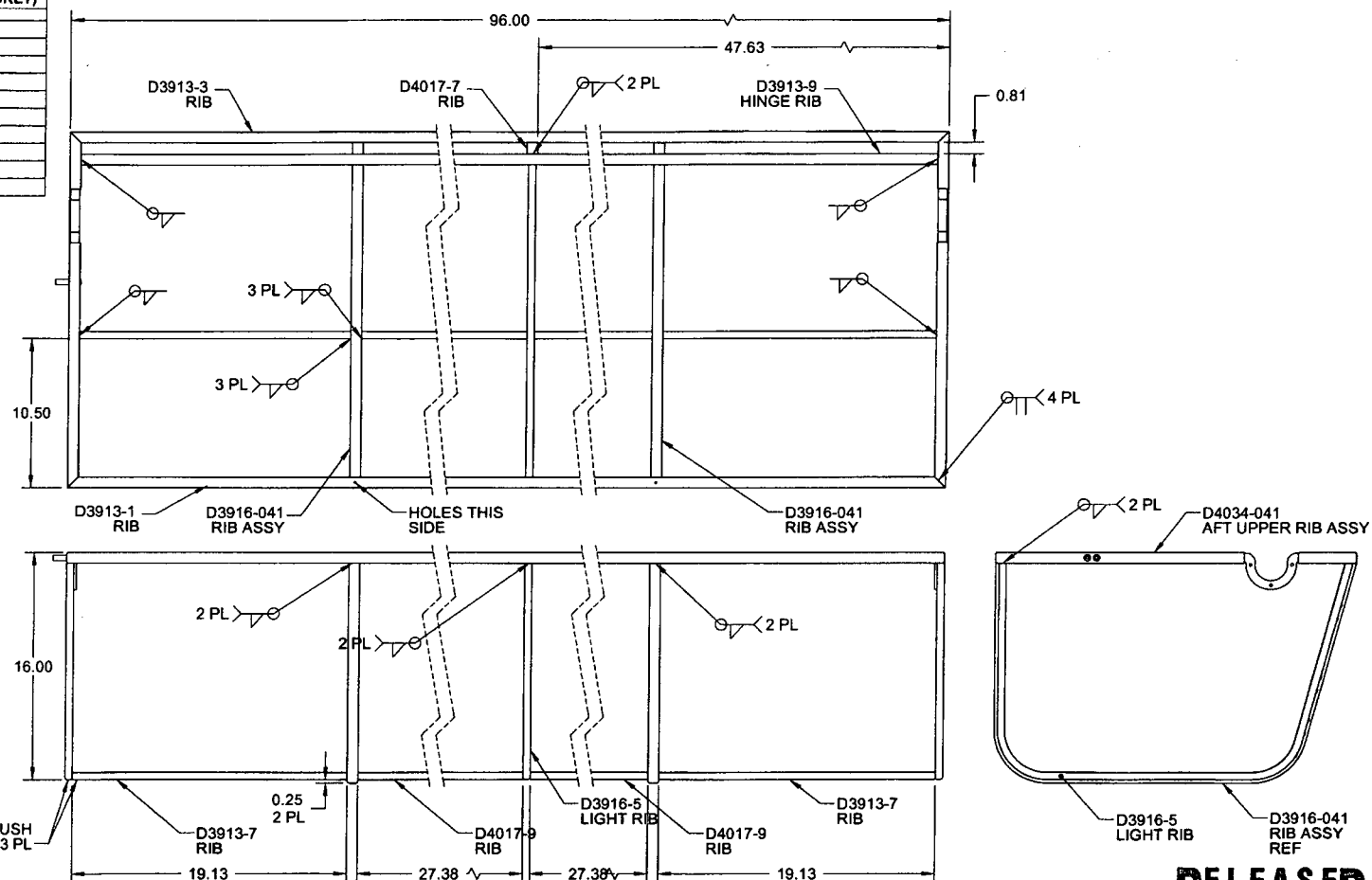
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**NOTE:** Date & initial all entries

ITEM	QTY	P/N	DESCRIPTION
	X	D3913-101	TUBULAR ASSY (350 LONG BASKET)
1	1	D3913-1	RIB
2	1	D3913-3	RIB
3	2	D3913-7	RIB
4	1	D3913-9	HINGE RIB
5	3	D3916-5	LIGHT RIB
6	2	D3916-041	RIB ASSY
7	1	D4017-7	RIB
8	2	D4017-9	RIB
9	1	D4034-041	AFT UPPER RIB ASSY
10	1	D4034-043	FWD UPPER RIB ASSY



8 D3913-101 TUBULAR ASSY (350 SHORT BASKET)

NOTES:

- 1) MATERIAL: N/A
- 2) FINISH: NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 22.53 lbs
- 8) TOLERANCE FOR XX.XX DIMENSIONS  $\pm 0.06$  FOR D3913-101
- 9) WELD PER DART QSI 004

DESIGN	AJS	DART AEROSPACE LTD HAWKESBURY, ONTARIO, CANADA	
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CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D3913	SHEET 4 OF 6
APPROVED		TITLE	SCALE
DE APPR.		LONG BASKET BASE ASSY (350)	NTS
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2010-03-22

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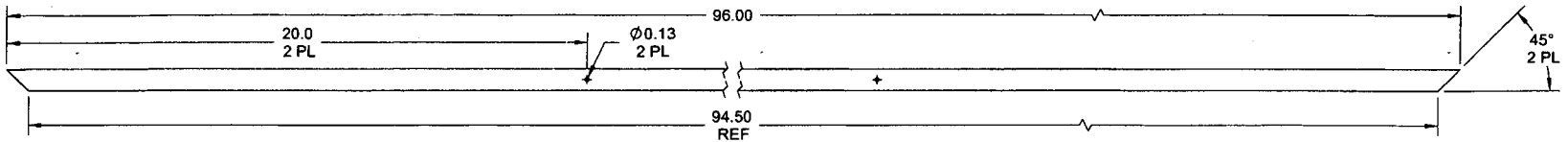
**Dart Aerospace Ltd**

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DATE	STEP	PROCEDURE CHANGE	By	Date	Qty	Approval Chief Eng / Prod Mgr	Approval QC Inspector

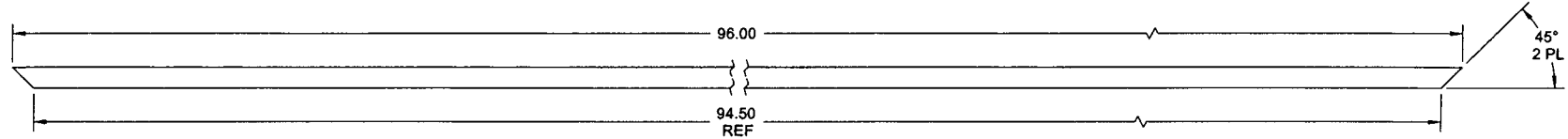
Part No: \_\_\_\_\_ PAR #: \_\_\_\_\_ Fault Category: \_\_\_\_\_ NCR: Yes No DQA: \_\_\_\_\_ Date: \_\_\_\_\_  
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DATE	STEP	Description of NC Section A	Corrective Action Section B			Verification Section C	Approval Chief Eng	Approval QC Inspector
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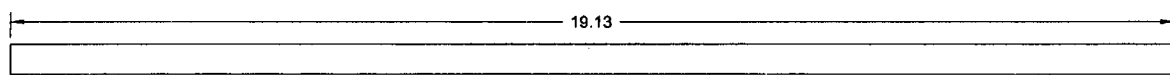
**NOTE:** Date & initial all entries



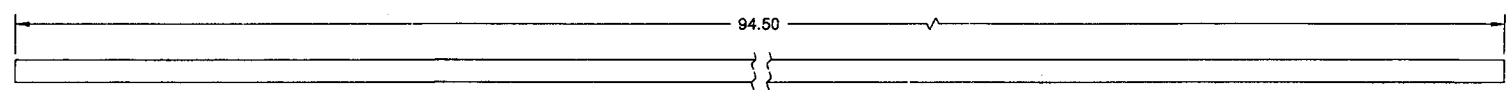
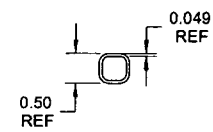
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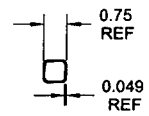
**D3913-3 RIB**



**D3913-7 RIB**



**D3913-9 HINGE RIB**



**NOTES:**

1) MATERIAL -1, -3, -9: AISI 304/316 STAINLESS STEEL SQUARE TUBE, 0.75 X 0.75 X 0.049 WALL  
REF DART SPEC. M304TS0.750W.049

-7: AISI 304/316 STAINLESS STEEL SQUARE TUBE, 0.50 X 0.50 X 0.049 WALL  
REF DART SPEC. M304TS0.500W.049

2) FINISH: NONE

3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED

4) UNITS: INCHES UNLESS OTHERWISE NOTED

5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX

6) IDENTIFICATION: N/A

7) WEIGHT: SEE ASSEMBLED WEIGHTS

86531

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2010-03-22

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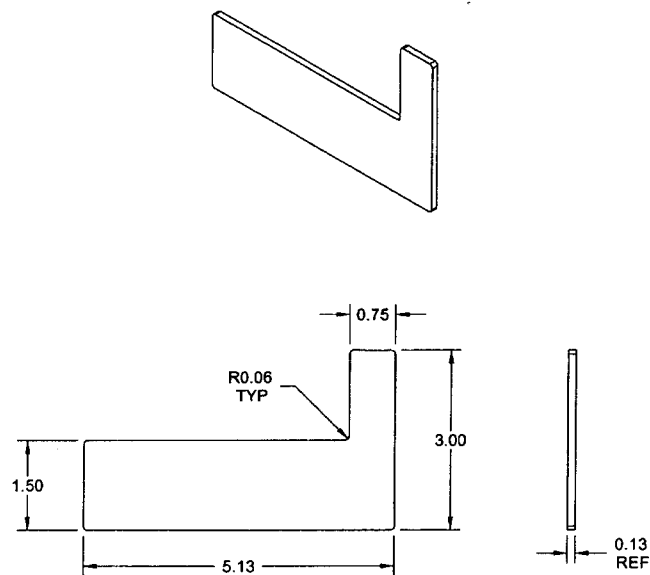
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**D3913-15 WIDE HANDLE PLATE**

86531

**RELEASED**  
2010-03-22  
JWP

**NOTES:**

- 1) MATERIAL: 304/316 STAINLESS STEEL SHEET ANNEALED 2B FINISH,  
PER MIL-S-5059 OR AMS 5513/5524 OR ASTM A240 OR ASME SA240  
REF DART SPEC M304S11GA
- 2) FINISH : NONE
- 3) TOLERANCES: PER DART QSI 018 UNLESS OTHERWISE NOTED
- 4) UNITS: INCHES UNLESS OTHERWISE NOTED
- 5) BREAK SHARP EDGES: 0.005 TO 0.010 MAX
- 6) IDENTIFICATION: N/A
- 7) WEIGHT: 0.31 lbs

DESIGN	AJS	<b>DART AEROSPACE LTD</b>	
DRAWN	JFH	HAWKESBURY, ONTARIO, CANADA	
CHECKED		DRAWING NO.	REV. A
MFG. APPR.		D3913	SHEET 6 OF 6
APPROVED		TITLE	SCALE
DE APPR.		LONG BASKET BASE ASSY (350)	NTS
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